

Recombinant Human CRYAA Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CRYAA-2879H Lot. No. (See product label)

SPECIFICATION

Product Overview

CRYAA MS Standard C13 and N15-labeled recombinant protein (NP_000385) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

Mammalian lens crystallins are divided into alpha, beta, and gamma families. Alpha crystallins are composed of two gene products: alpha-A and alpha-B, for acidic and basic, respectively. Alpha crystallins can be induced by heat shock and are members of the small heat shock protein (HSP20) family. They act as molecular chaperones although they do not renature proteins and release them in the fashion of a true chaperone; instead they hold them in large soluble aggregates. Post-translational modifications decrease the ability to chaperone. These heterogeneous aggregates consist of 30-40 subunits; the alpha-A and alpha-B subunits have a 3:1 ratio, respectively. Two additional functions of alpha crystallins are an autokinase activity and participation in the intracellular architecture. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Alpha-A and alpha-B gene products are differentially expressed; alpha-A is preferentially restricted to the lens and alpha-B is expressed widely in many tissues and organs. Defects in this gene cause autosomal dominant congenital cataract (ADCC).

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| | |
|-----------------------|---|
| Molecular Mass | 19.9 kDa |
| AA Sequence | MDVTIQHPWFKRTLGPFYPSRLFDQFFGEGLEFYDLLPFLSSTISPYRQSLFRTVLD SGISEVRSRDRDKFVIFLDVKHFSPEDLTVKVKQDDFVEIHGKHNERQDDHGYISREFH RRYRLPSNVDQSALSCSLSadGMLTFCGPKIQTGLDATHAERAIPVSREEKPTSAPS STRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| Purity | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Stability | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| Storage | Store at -80 centigrade. Avoid repeated freeze-thaw cycles. |
| Concentration | 50 µg/mL as determined by BCA |
| Storage Buffer | 100 mM glycine, 25 mM Tris-HCl, pH 7.3. |

GENE INFORMATION

| | |
|------------------------|--|
| Gene Name | CRYAA crystallin alpha A [Homo sapiens (human)] |
| Official Symbol | CRYAA |
| Synonyms | CRYAA; crystallin, alpha A; CRYA1; alpha-crystallin A chain; HSPB4; crystallin, alpha-1; heat shock protein beta-4; human alphaA-crystallin (CRYA1); |
| Gene ID | 1409 |
| mRNA Refseq | NM_000394 |

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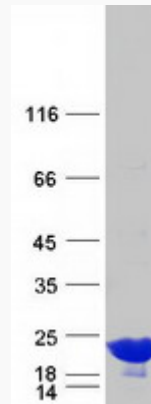
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Protein Refseq NP_000385

MIM 123580

UniProt ID P02489

SDS-PAGE



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